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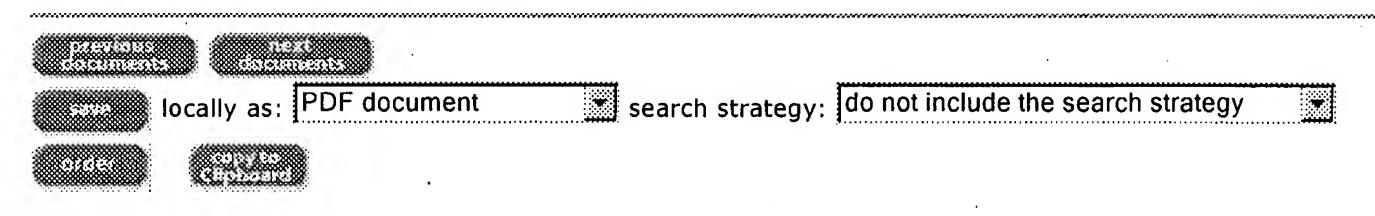databases | search page | titles

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Accession number & update
    0007890723 20070101.
Title
    Characteristic-function-based independent component analysis.
Source
    Signal Processing, **{Signal-Process-Netherlands},** Oct. 2003, vol. 83, no. 10, p. 2195-208, 30 refs, CODEN: SPRODR, ISSN: 0165-1684.
    Publisher: Elsevier for EURASIP, Netherlands.
Author(s)
    <u>Eriksson-J</u>, <u>Koivunen-V</u>.
Author affiliation
    Eriksson, J., Koivunen, V., **Signal** Process. Lab., Helsinki Univ. of Technol., Finland.

Abstract
    A novel characteristic-function-based method for **blind separation** of statistically independent **source** signals is proposed in the independent component analysis (ICA) framework. The definition of independence may be given in terms of factorization of joint characteristic function. These criteria always exist and two of them have desirable large sample properties. An objective function for estimating the independence criteria directly from data is proposed. Simulation results demonstrate that the method performs reliably even in such situations where many widely used ICA methods may fail.

Descriptors
    <u>BLIND-SOURCE-SEPARATION</u>; <u>INDEPENDENT-COMPONENT-ANALYSIS</u>; <u>MINIMISATION</u>.
Classification codes
    <u>B6140</u> <u>Signal-processing-and-detection</u>*;
    <u>B0240Z</u> <u>Other-topics-in-statistics</u>;
    <u>B0260</u> <u>Optimisation-techniques</u>;
    <u>C1260S</u> <u>Signal-processing-theory</u>*;
    <u>C1180</u> <u>Optimisation-techniques</u>;
    <u>C1140Z</u> <u>Other-topics-in-statistics</u>.
Keywords
    characteristic-function-based-method; independent-component-analysis; **blind-source-separation**;

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   Classification codes A: Physics, 0-1

independent-source-signals; joint- characteristic-function-factorization; independence-criteria; empirical-characteristic-function; **Jacobi-algorithm;** Fourier-methods; mutual-information; optimization; asymptotic-properties; Gaussian-noise.

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